TEST REPORT

Client Name	Huizhou Epever Technology Co., Ltd.
Name of product	On-grid PV Inverter
Manufacturer	Huizhou Epever Technology Co., Ltd.
Model	SPT70KTL-H
Test Sort	Commission Test

CCIC Southern Testing Co., Ltd.

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CCIC Southern Testing Co., Ltd.

TEST REPORT

Name of sample	On-grid PV Inverter	Trade mark	EPEVER
Client	Huizhou Epever Technology Co., Ltd.	Model/Type	SPT70KTL-H
Manufacturer	Huizhou Epever Technology Co., Ltd.	Sampling method	Sent by Client
Factory	----	Quantity of samples	1 Pcs
Production date	----	Application date	2023-11-20
Test date	2024-6-13 ~ 2024-6-25	Environment condition	15-35℃, 45-75% RH

Sample description:

One sample, in good condition before test. Number: 1#.
Manufacturer's Statement:
(Machine Name :On-grid PV Inverter
Main test Model: SPT70KTL-H
Series model: SPT50KTL、SPT50KTL-H、SPT60KTT、SPT60KTL-H
Differences between the description :This test is carried out on SPT70KTL-H model, There is no difference inother series models, but the naming method.)

Test item:

IP6X Dust-proof test, IPX5 Water-proof test.

Reference documents:

IEC 60529:1989+A1:1999+A2:2013 Degrees of protection provided by enclosures (IP Code).

Summary:

According to the requirement, sample has been performed,IP6X Dust-proof test, IPX5 Water-proof test. The appearance and function of sample are both normal after test, refer to followed report for detail.

Test conclusion:

Pass.

(Stamp)

Tested by:	Inspected by:	Approved by:
Zhang Jun	Gerry	Wang Shijie
2024 Y 8 M 19 D	2024 Y 8 M 19 D	2024 Y 8 M 19 D

Note: This report replaces the report 20231110W15840 issued on 2024.6.28, and the original report is invalid.

Test Result

No.	Test Item	Test Requirement	Test Result
			1#
1	IP6X Dust-proof test	Test items 1	Pass
2	IPX5 Water-proof test	Test items 2	Pass

Test Result

Test items 1：IP6X Dust-proof test

Environmental conditions：

Temperature：25 ℃. Humidity：71%RH, Normal atmospheric pressure.

Reference documents:

IEC 60529:1989+A1:1999+A2:2013Degrees of protection provided by enclosures (IP Code).

Test arrangement:

In strict accordance with the experimental requirements of the layout.

Sample state：

Sample in good condition before test.

Test conditions：

Dust-proof Test Against access to hazardous parts with ：

The test wire of 1.0 mmφ shall not penetrate and adequate clearance shall be kept.

Dust-proof Test Against ingress of solid foreign objects：

The dust box was used for testing, talcum powder was filtered by metal square hole sieve, and the diameter of metal wire was 50 μ m. The mesh size is 75 μ m. The dosage of talcum powder is 2kg per cubic meter of test chamber volume, and the use times are not more than 20 times.

The sample is placed in the test chamber, and the pressure in the sample shell is kept below the atmospheric pressure by vacuum pump. The blowholes shall be attached to the holes specially set for the test.

With a maximum depression of 2 kPa (20 mbar), the extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8 h has elapsed.

Test acceptance requirements：

Dust-proof Test Against access to hazardous parts with ：

The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.

Dust-proof Test Against ingress of solid foreign objects：

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

Test conclusion：

Pass.

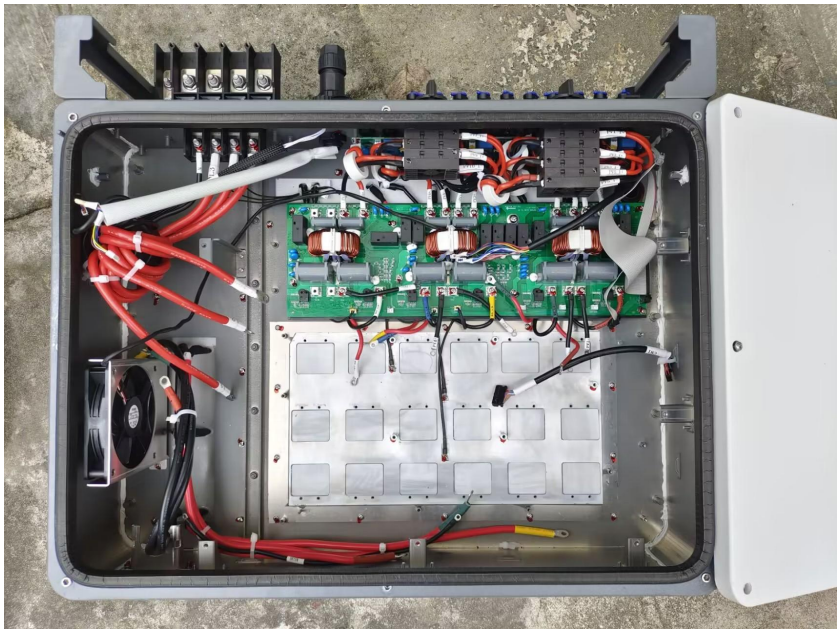
Test Result

Test items 1：IP6X Dust-proof test

Photo:



Post test inspection：



Test Result

Test items 2：IPX5 Water-proof test

Environmental conditions：

Temperature：25 ℃. Humidity：69%RH, Normal atmospheric pressure.

Reference documents:

IEC 60529:1989+A1:1999+A2:2013Degrees of protection provided by enclosures (IP Code).

Test arrangement:

In strict accordance with the experimental requirements of the layout.

Sample state：

Sample in good condition before test.

Test conditions：

– internal diameter of the nozzle: 6,3 mm;

– delivery rate: 12,5 L/min ± 5 %;

– water pressure: to be adjusted to achieve the specified delivery rate;

– core of the substantial stream: circle of approximately 40 mm diameter at 2,5 m distance from nozzle;

– test duration per square metre of enclosure surface area likely to be sprayed: 1 min;

– minimum test duration: 3 min;

– distance from nozzle to enclosure surface: between 2,5 m and 3 m.

Test acceptance requirements：

After the water-proof test, no water founded in the EUT.

Test conclusion：

Pass.

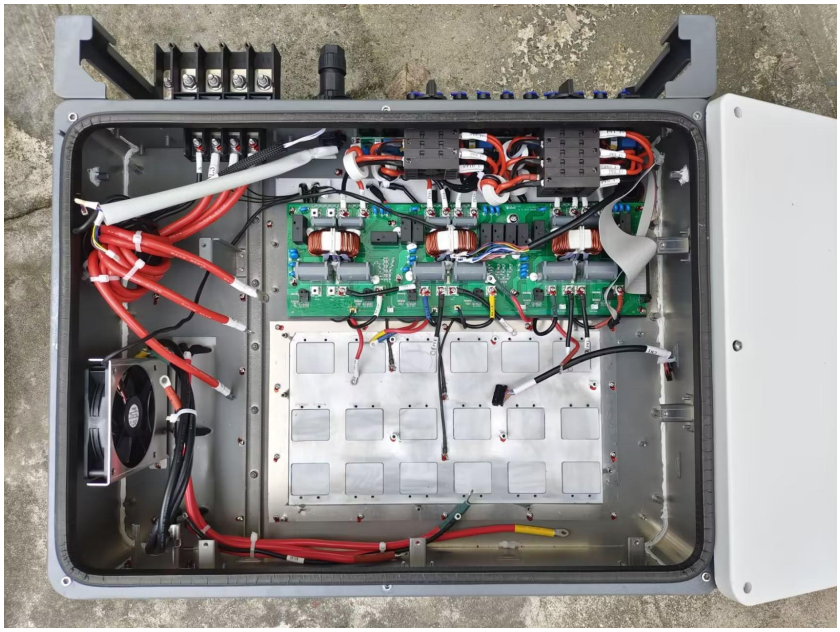
Test Result

Test items 2：IPX5 Water-proof test

Photo:



Post test inspection：



Sample appearance photos



1



2

List of Measurement Equipments Used

No.	Description	Model No.	Serial No.	Cal. Due to
1	Walk-in dustproof test chamber	JPY1410	A220603927	2025/6/18
2	Walk-in dustproof test chamber (Vacuum gauge section)	（-100~0）kPa	A220603927	2025/5/27
3	Waterproof test device	JPY-1351-56	C200600246	2025/1/17
4	IP test suite	IP1-6	A150802193	2024/10/24

Notes: The above instrument is within the metering test cycle.

********END OF REPORT********

STATEMENT

1. **The test report is invalid without stamp of laboratory.**
2. **The test report is invalid without signature of person(s) testing and authorizing.**
3. **The test report is invalid if erased and corrected.**
4. **Test results of the report is valid to the test samples if sampling by client.**
5. **"☆"item to be outside the scope of authorized by CNAS.**
6. **The report without the "CMA" stamp shall not have a certifying effect on the society.**
7. **The test report shall not be reproduced except in full, without written approval of the laboratory.**
8. **If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.**

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